Woolich Racing

Zeitronix ZT-3

Wideband O2 Installation Instructions

1) Introduction

This guide covers the installation of the Zeitronix ZT-3 Wideband O2 Controller using the Woolich Racing Wideband O2 Installation Kit.

The installation is described in detail in this guide and should take approximately 30-60 minutes to complete.

Note: The bike used for this installation is a 2012 ZX10R, the mounting location and wire routing will vary depending on your model but the installation procedure is the same for all models.

2) Hardware

To install the Zeitronix ZT-3 you should have the following hardware as supplied with your Zeitronix ZT-3 and Wideband Installation Kit:

1) Zeitronix ZT-3
2) Zeitronix 4 wire power harness
3) Zeitronix Wideband O2 Sensor (3ft cable)
4) Wideband O2 bung
5) 12v Relay
6) 4 * push on connectors and covers
7) 2 * 6mm battery terminal connectors
8) 1 * Wire Tap
9) Black and Red Wire
10) Double sided Velcro

3) Tools

The following tools will be useful when installing the Zeitronix ZT-3:

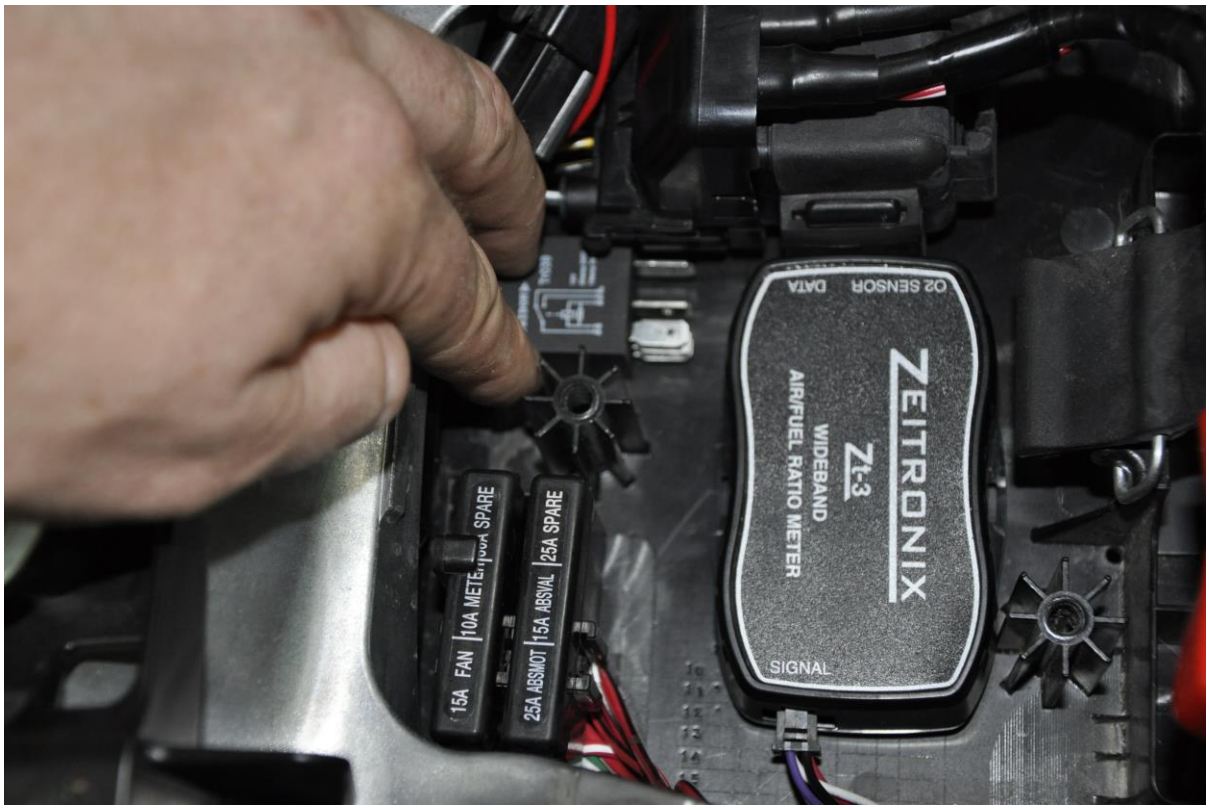
1) Side cutters
2) Pliers
3) Soldering Iron
4) Multimeter
5) Scissors

4) Mounting point for ZT-3 and Relay

Remove the seat and rear body work from your bike and locate a suitable mounting point for the Zeitronix ZT-3 and 12v Relay. Do not mount the ZT-3 and relay at this point.

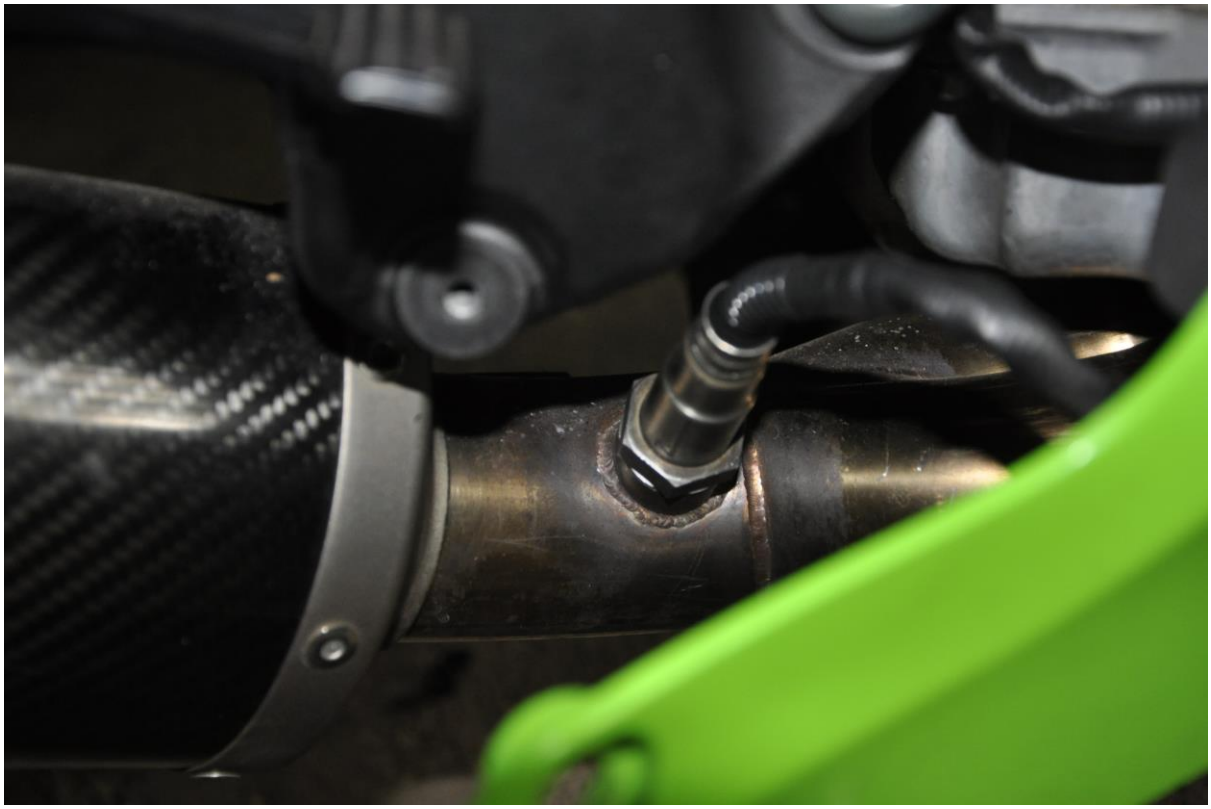
The ideal mounting point should:

- Be protected from moisture and weather
- Allow for the connectors to be plugged in on both ends of the ZT-3
- Be isolated from excessive vibration and heat.

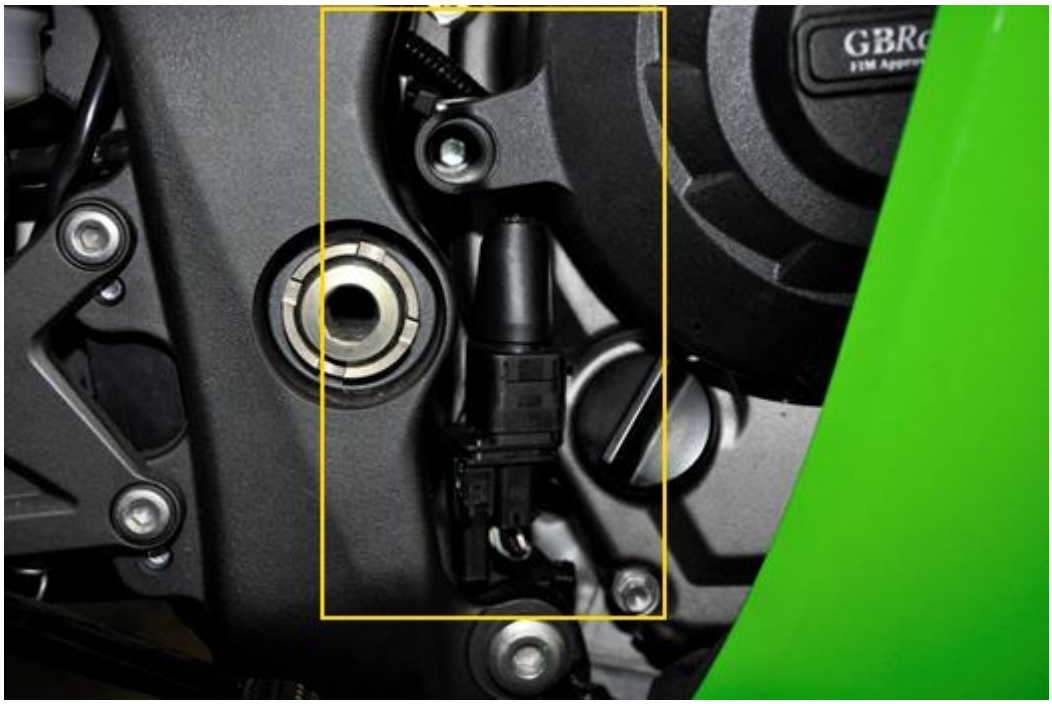


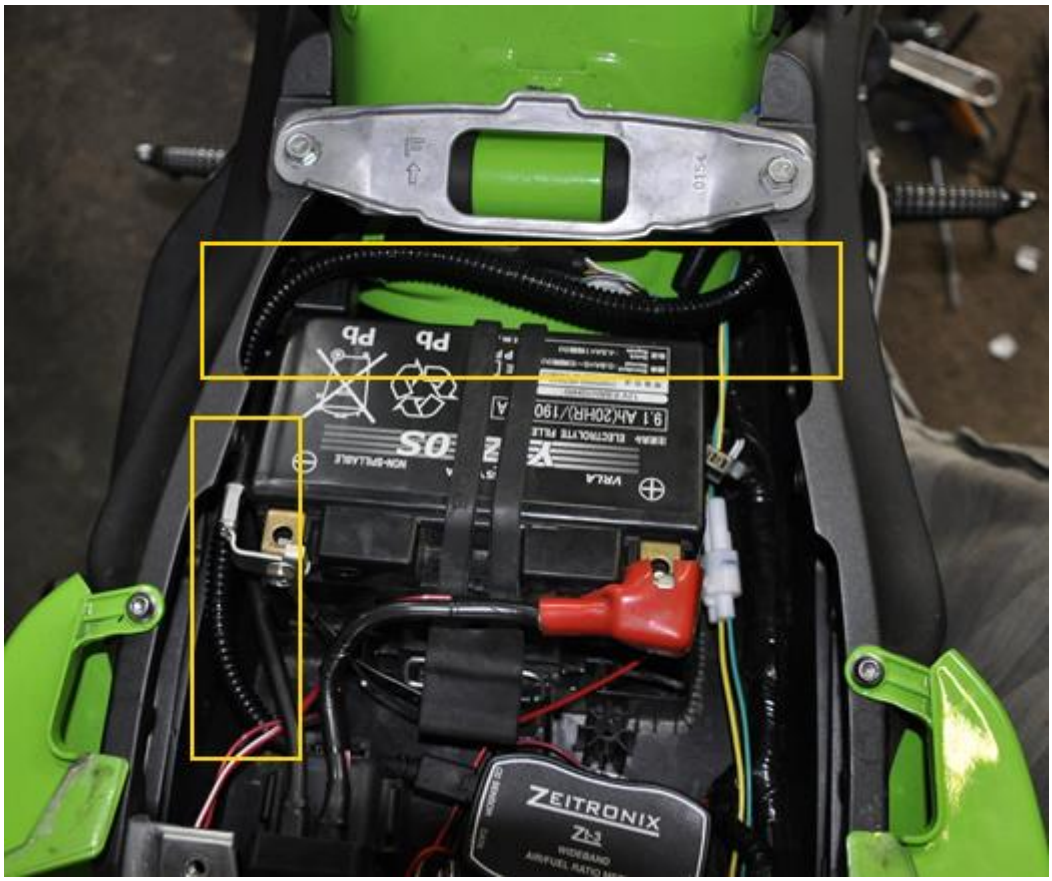
5) Wideband O2 sensor Installation

1) Locate the Wideband O2 bung in your Exhaust. If you don't have a Wideband O2 bung in your exhaust you will need to have the supplied bung welded into your exhaust at a suitable location just behind the collector in the headers, please ensure you install the bung in a position allowing the Wideband O2 sensor to be screwed into position. The bung should also be installed in the top half of the pipe so that it is pointing down into the exhaust gas flow.



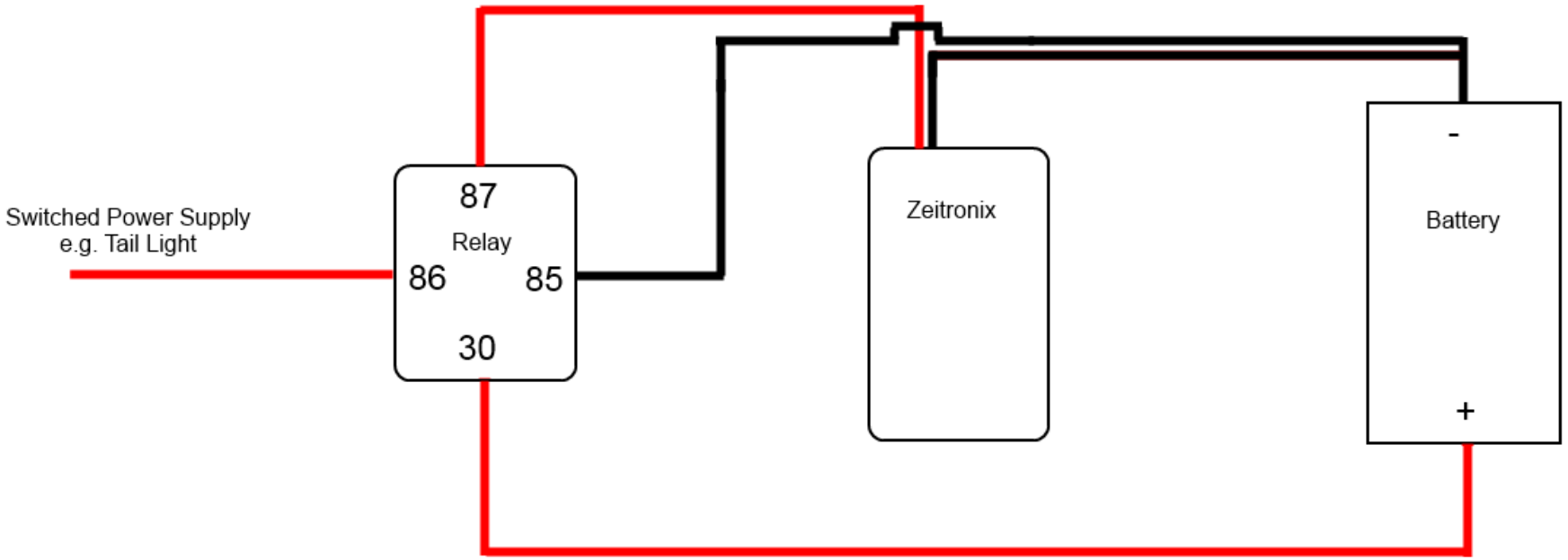
2) Route the Wideband O2 cable on the bike to your mounting position for the ZT-3 Wideband controller





6) Power Supply Harness

The wiring diagram below shows the power supply harness to connect the Zeitronix ZT-3 to the bike, the steps following describe how to make the harness using the Woolich Racing Wideband O2 Installation kit.



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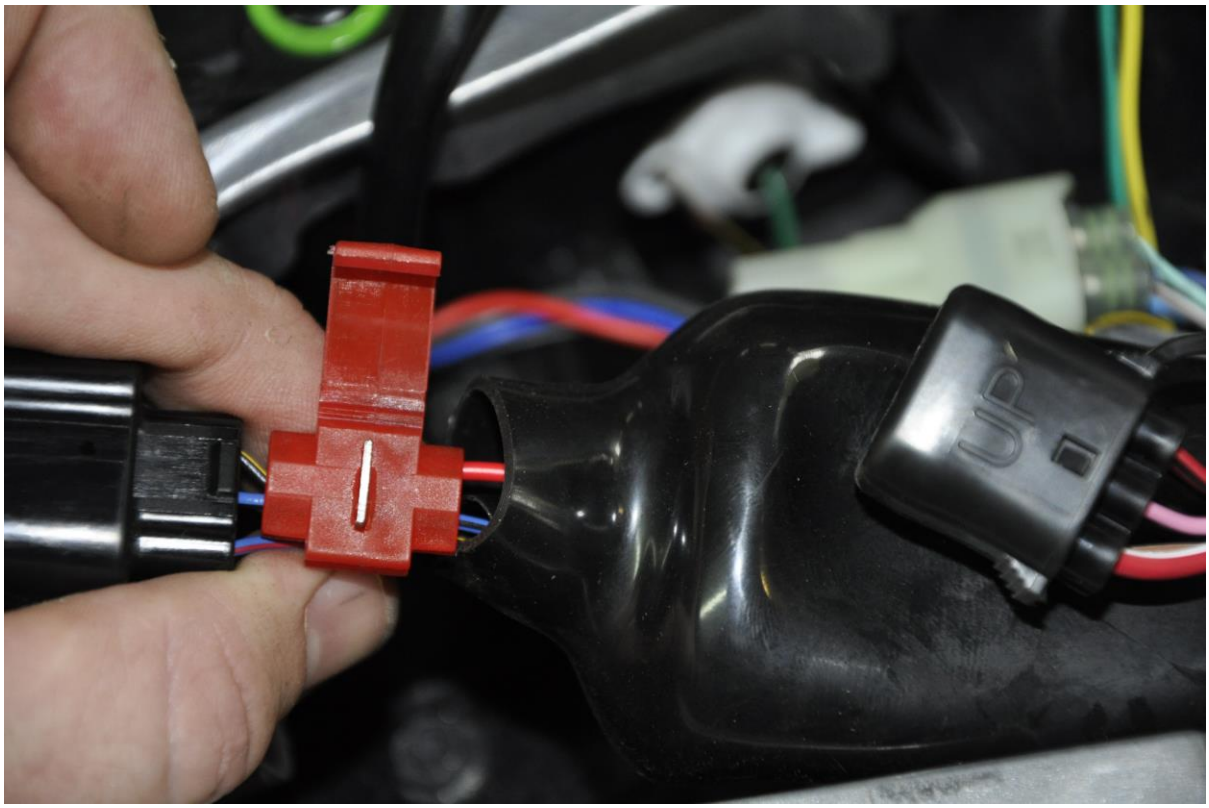
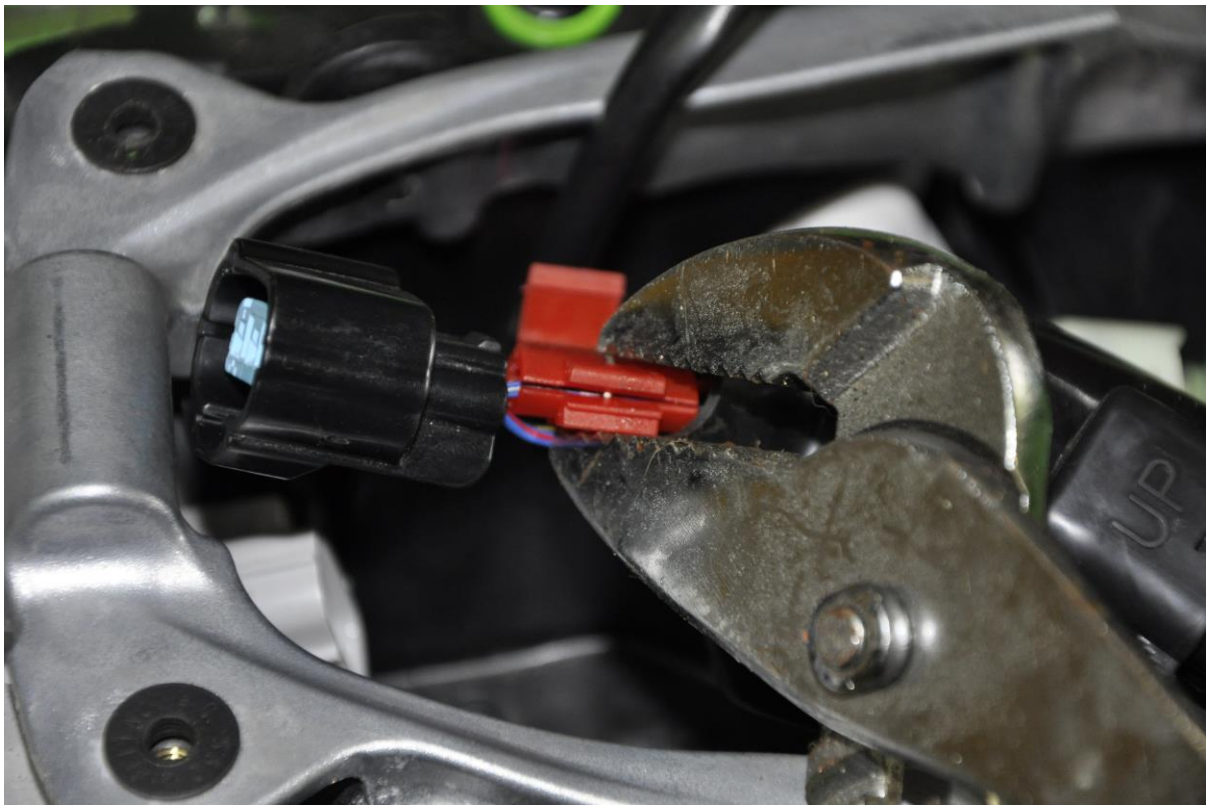
1) Locate a switched power supply wire, this will be used to switch the relay. A switched power supply wire is one that is powered on when the key is turned on, and powered off when the key is turned off. A good option is the tail light (centre wire in tail light plug below for 2012 ZX10R). Test the switched power supply with a multimeter to ensure it has 12v when the key is turned on and 0v when the key is turned off.

2) Measure a length of red wire to go from the switched power supply wire to pin 86 on the 12v relay.
3) Use the supplied Wire Tap to tap into the switched power supply wire.

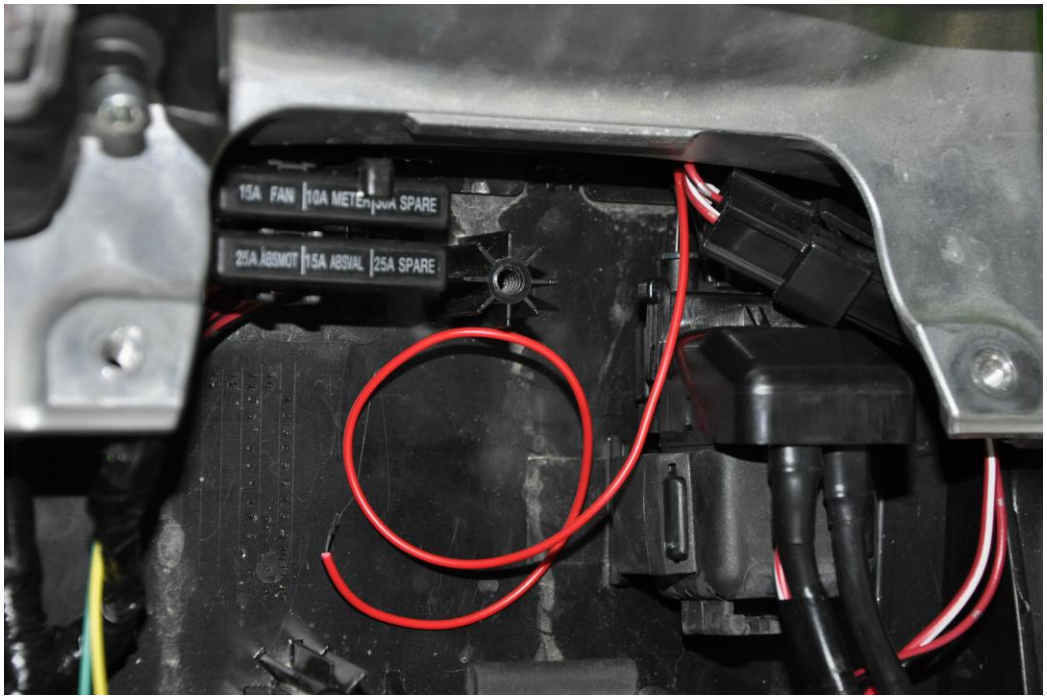


4) Use pliers to crimp the terminals on the wire tap to the switched power wire and the red wire.

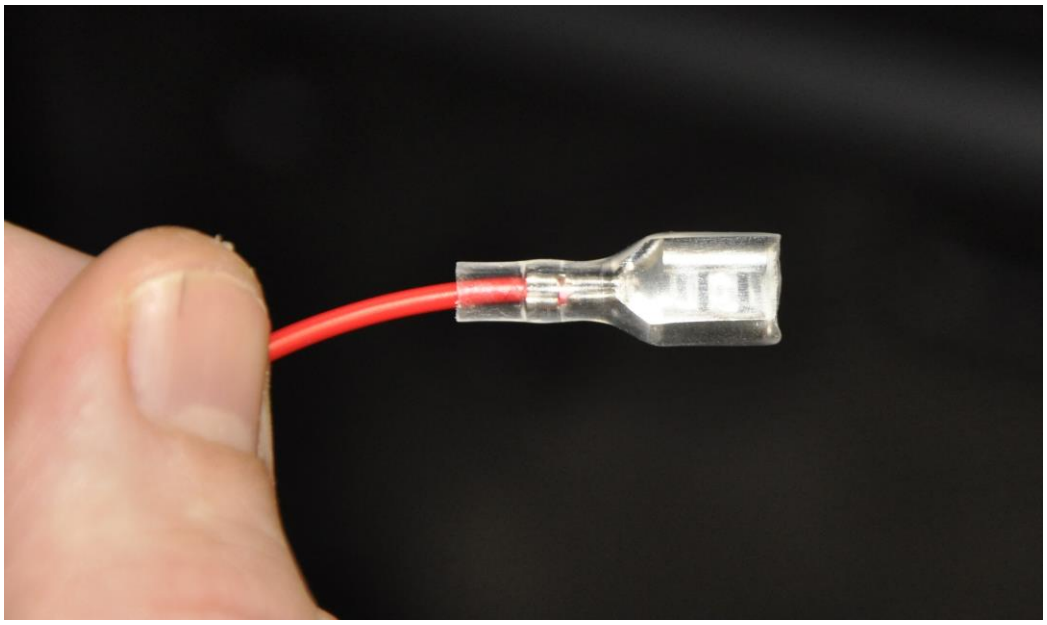


5) Close the latch on the wire tap

6) Route the Red wire through to the 12v relay mounting position.

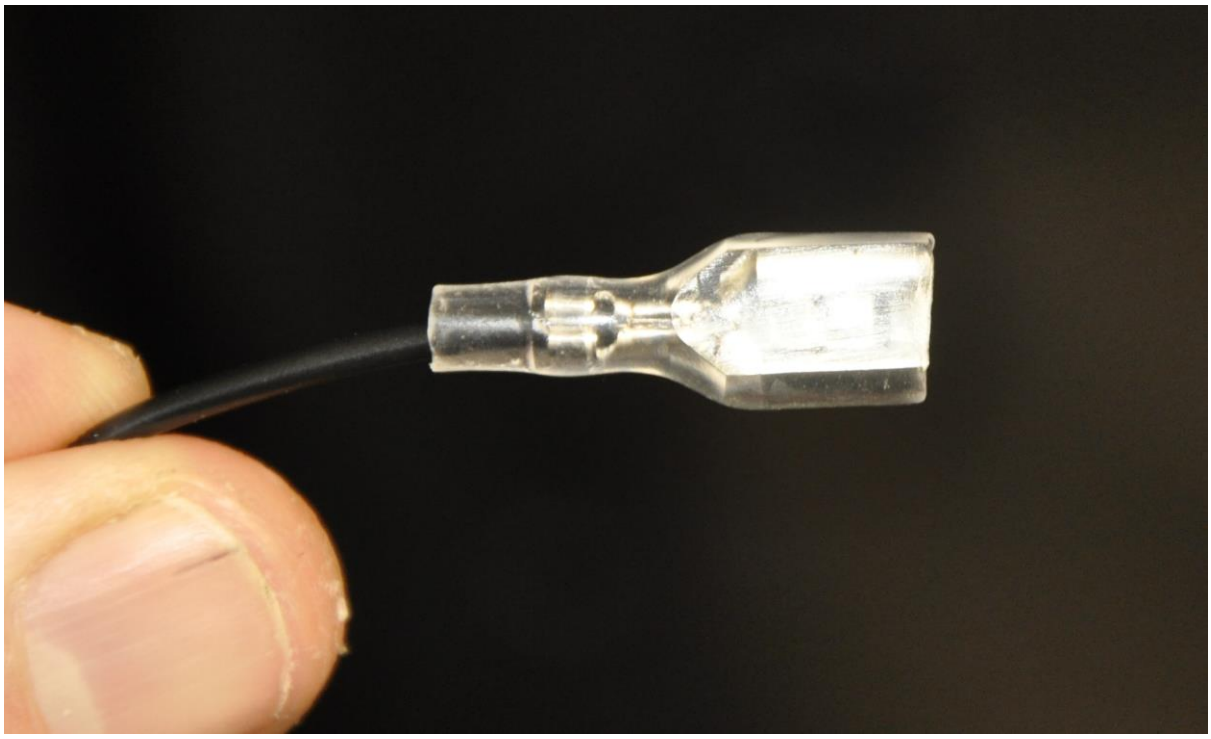


7) Cut wire to length and Install the supplied push on connector and cover.

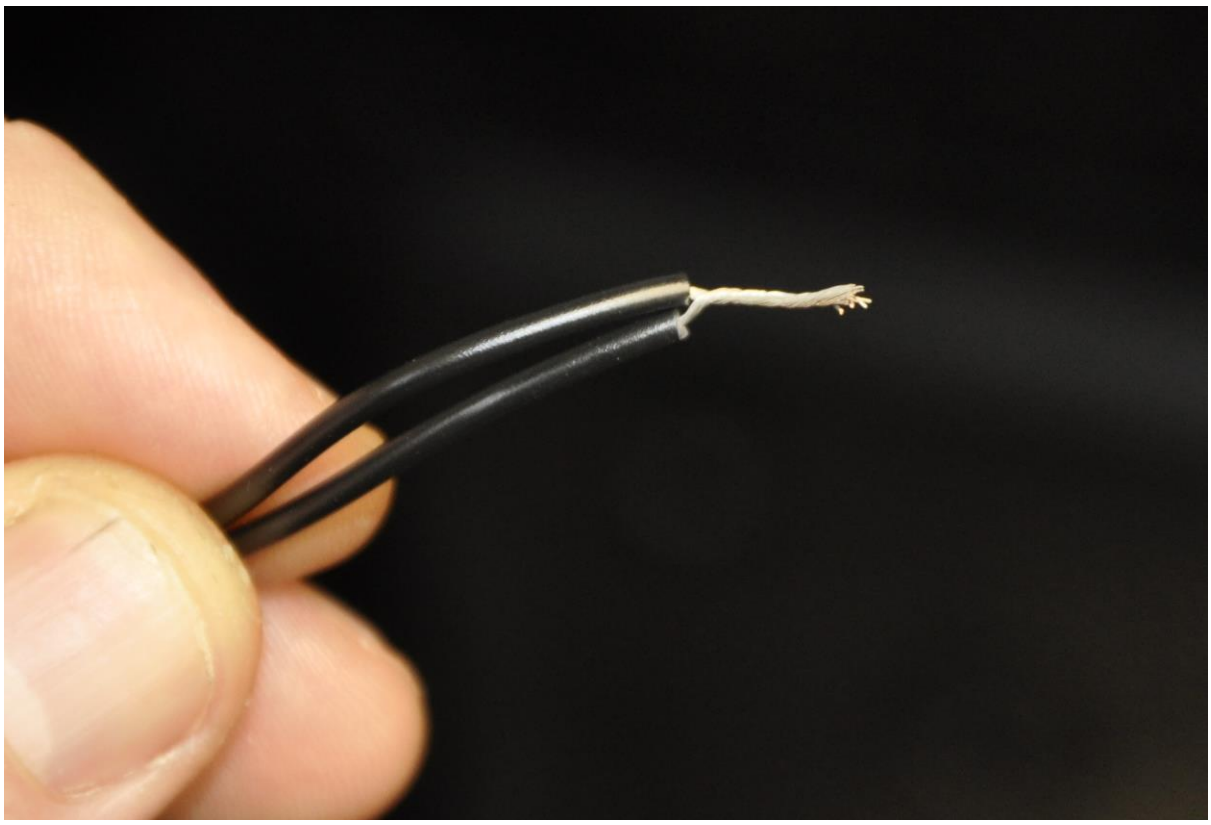


8) Push connector onto terminal 86 on 12v relay

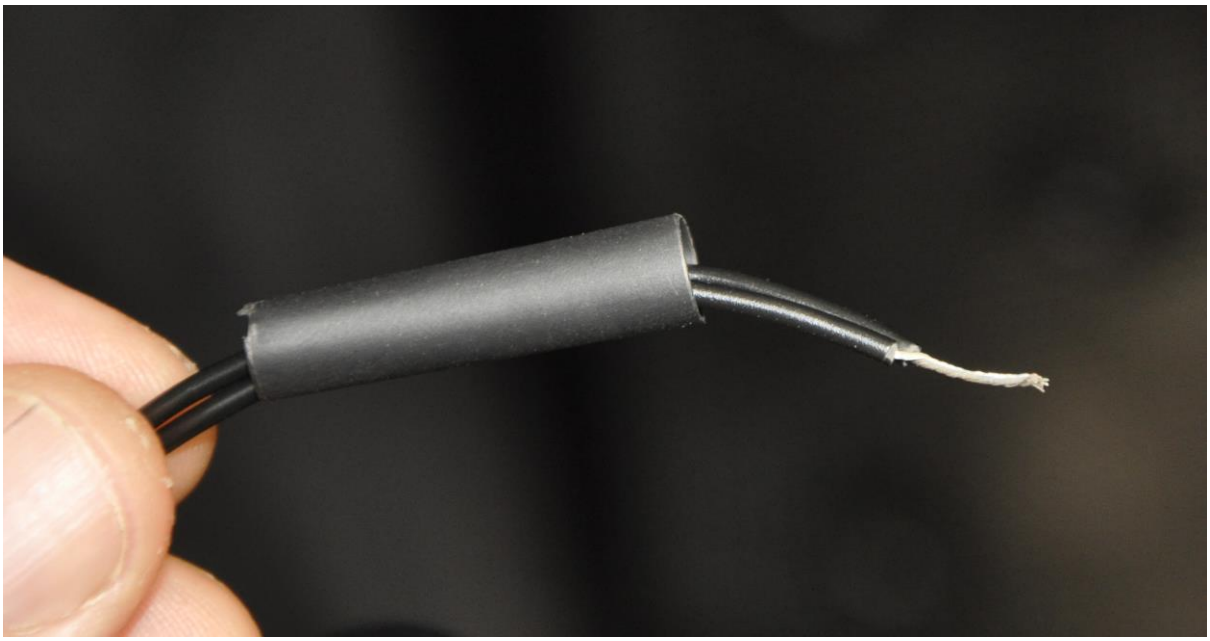
9) Measure and cut a piece of black wire from pin 85 on relay to –ve terminal on battery
10) Install push connector and cover on one end of black wire and connect to pin 85 on relay



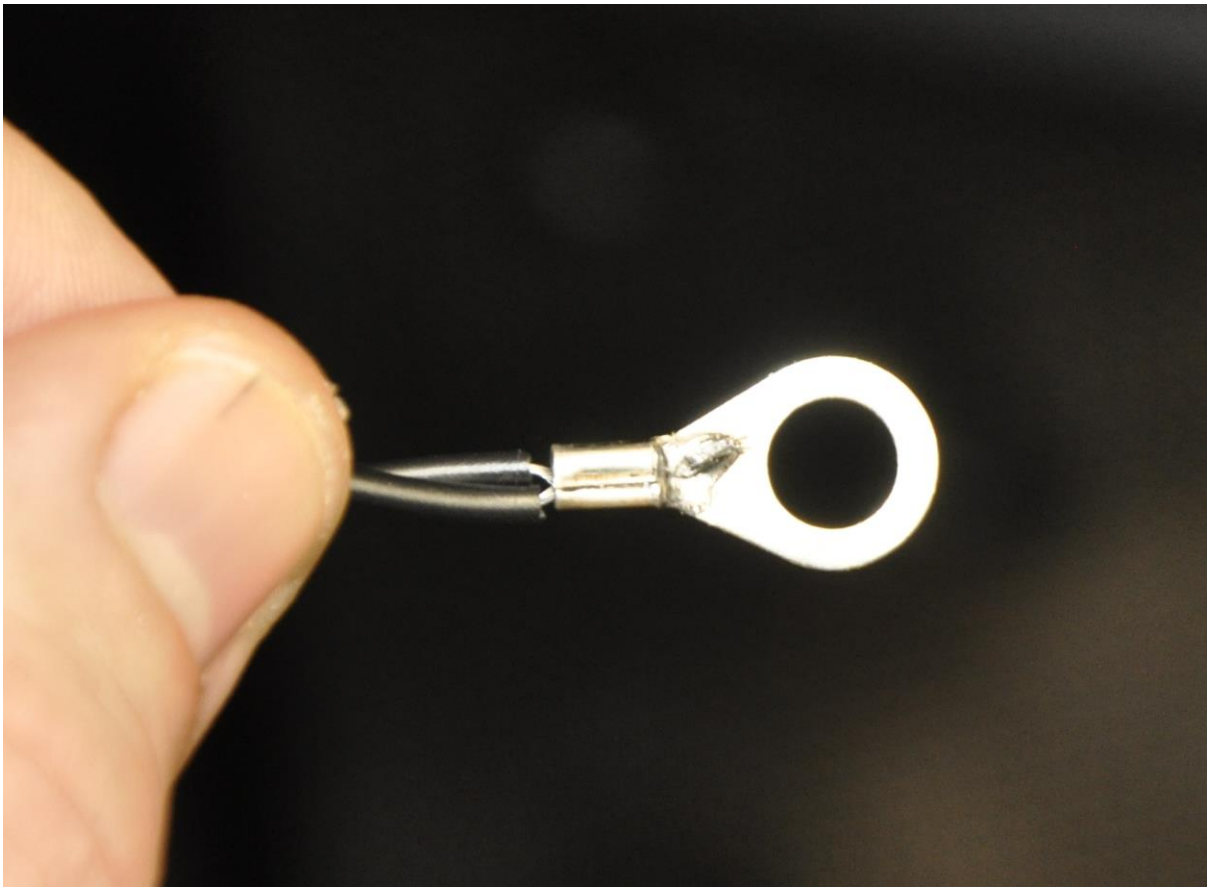
11) Join black wires from relay and ZT-3 power supply harness.



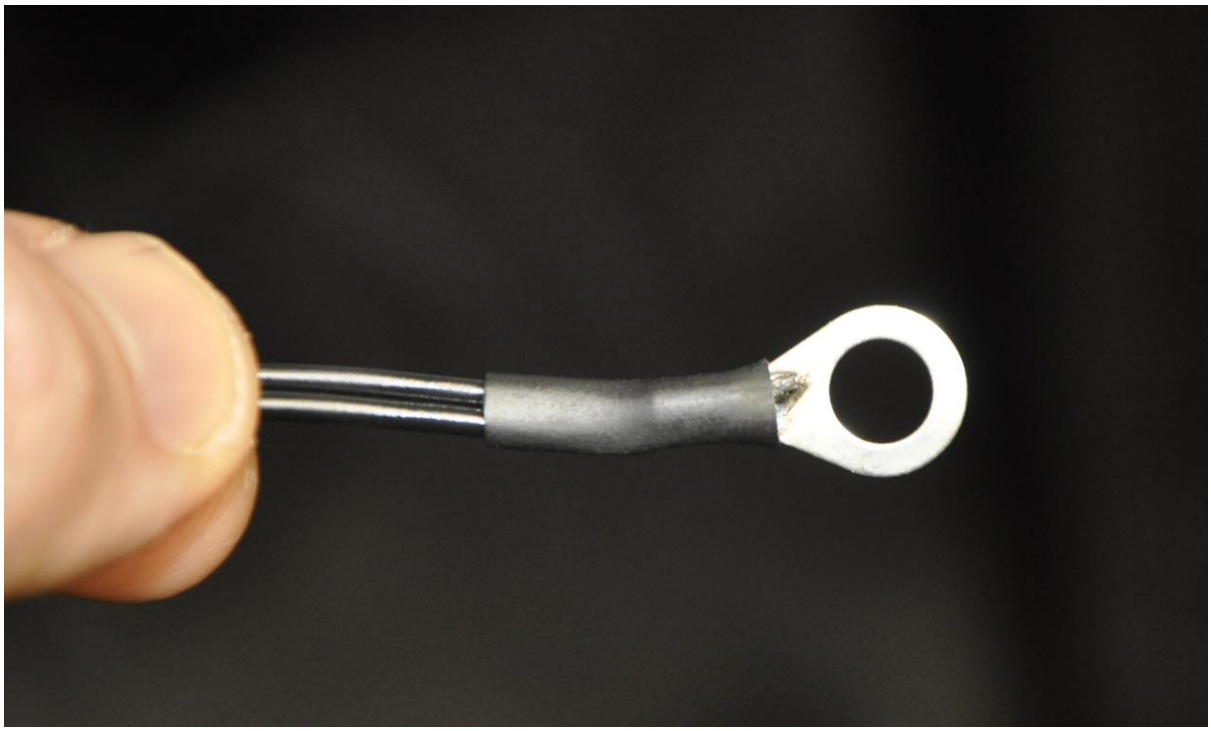
12) Slip heat shrink over black wires.



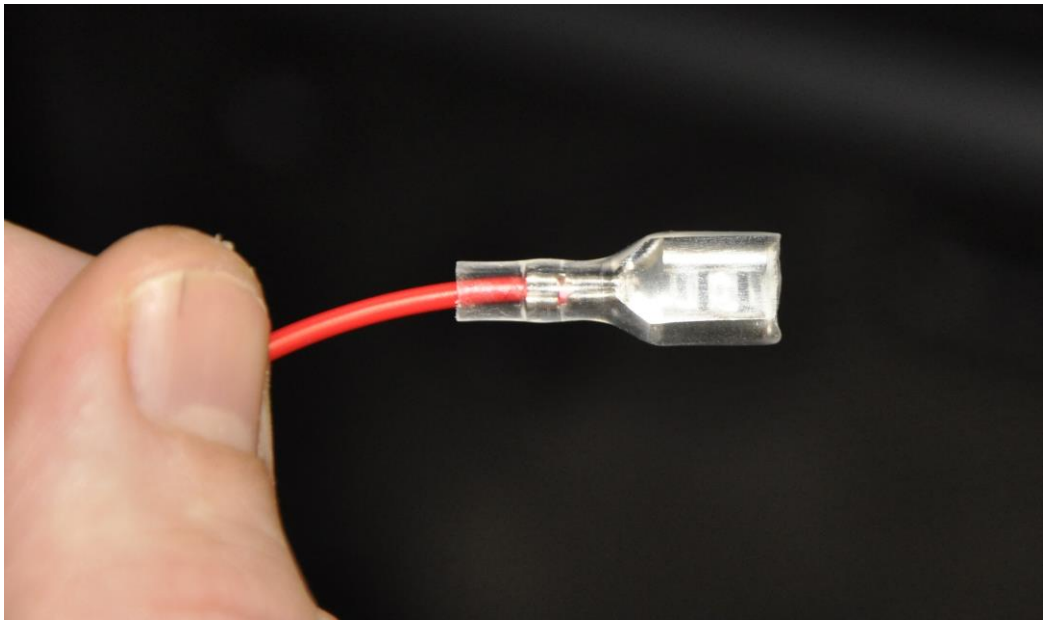
13) Install and solder 6mm eye connector to 2 black wires.



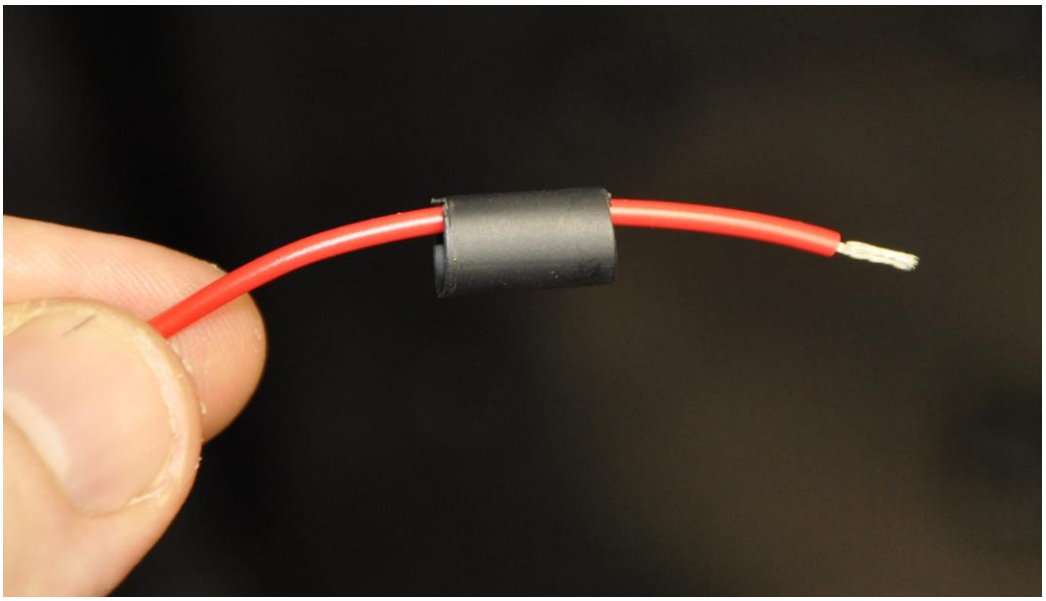
14) Apply heat to heat shrink to seal connecto.



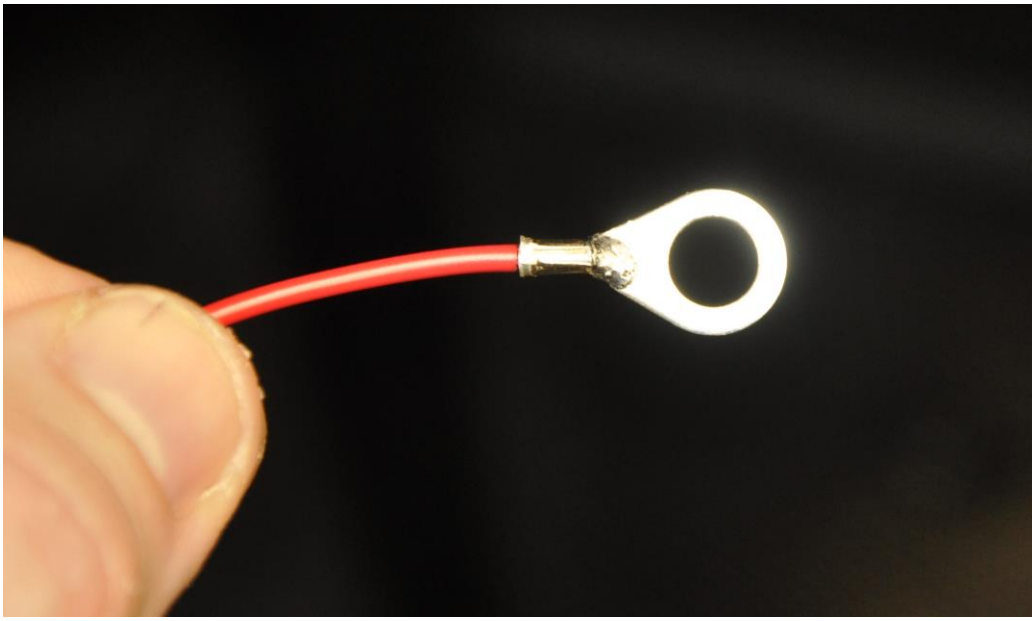
15) Measure and cut a piece of red wire from pin 30 on 12v relay to +ve battery terminal
16) Install push connector and cover on one end of red wire and connect to pin 30 on 12v relay



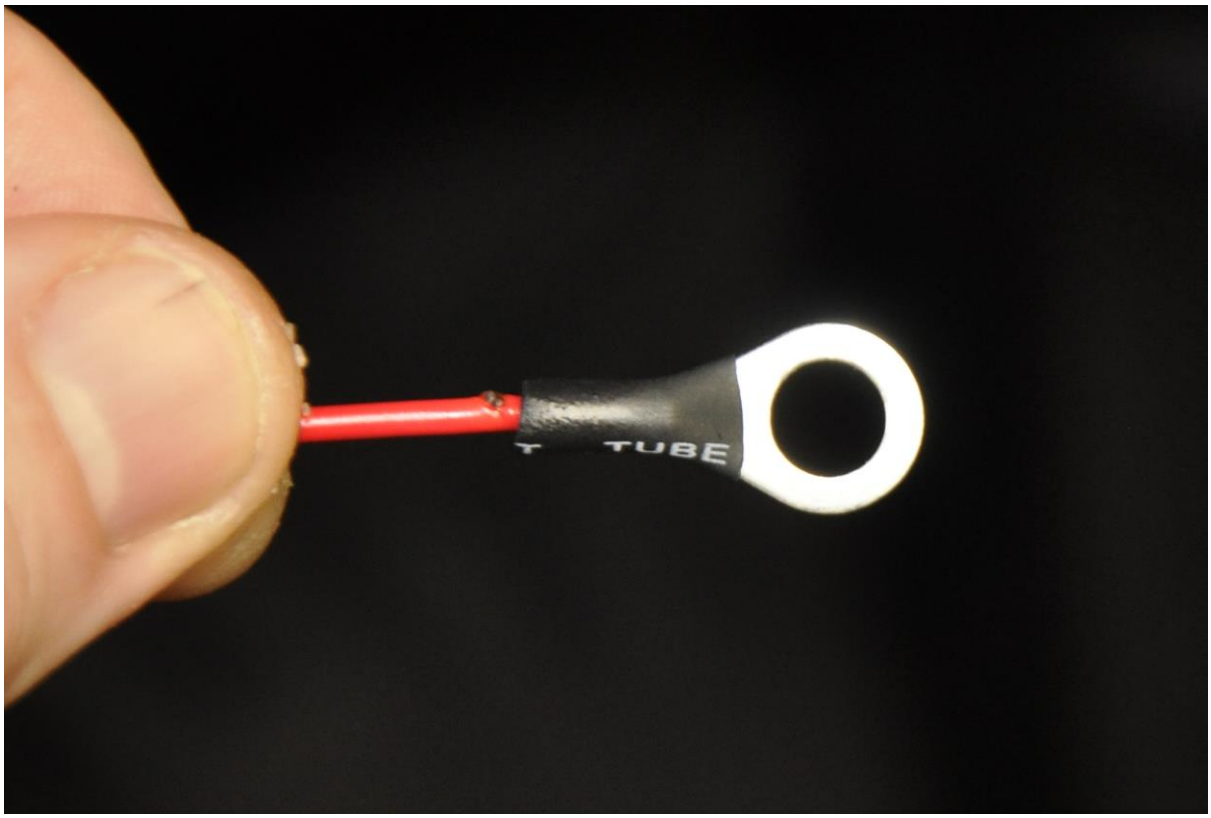
17) Slip heat shrink over red wire on battery end



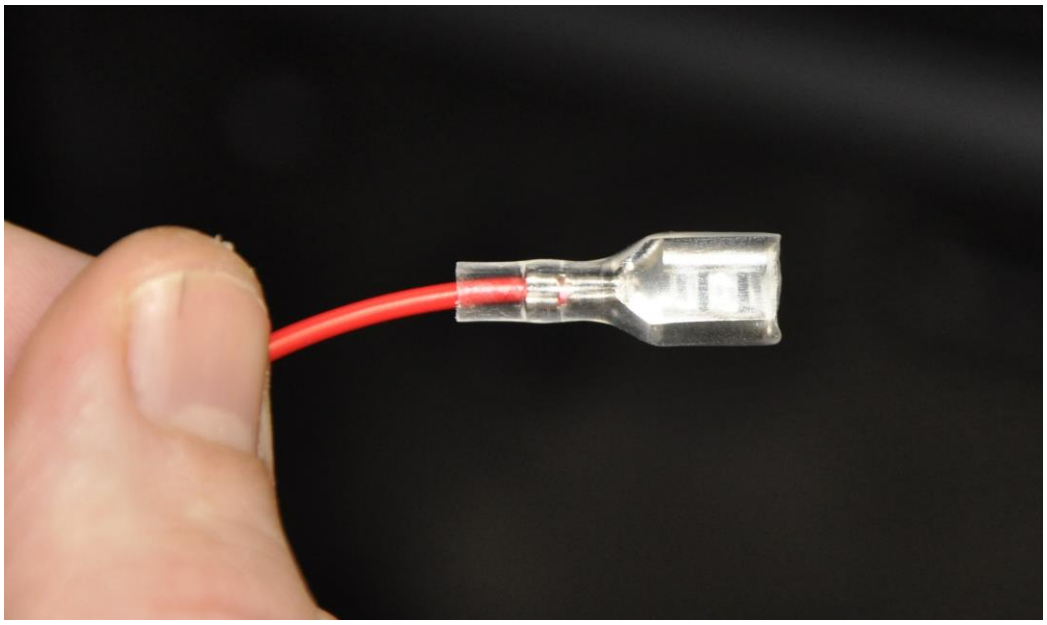
18) Install and Solder 6mm eye connector to battery end of red wire



19) Apply heat to heat shrink to seal on connector end.



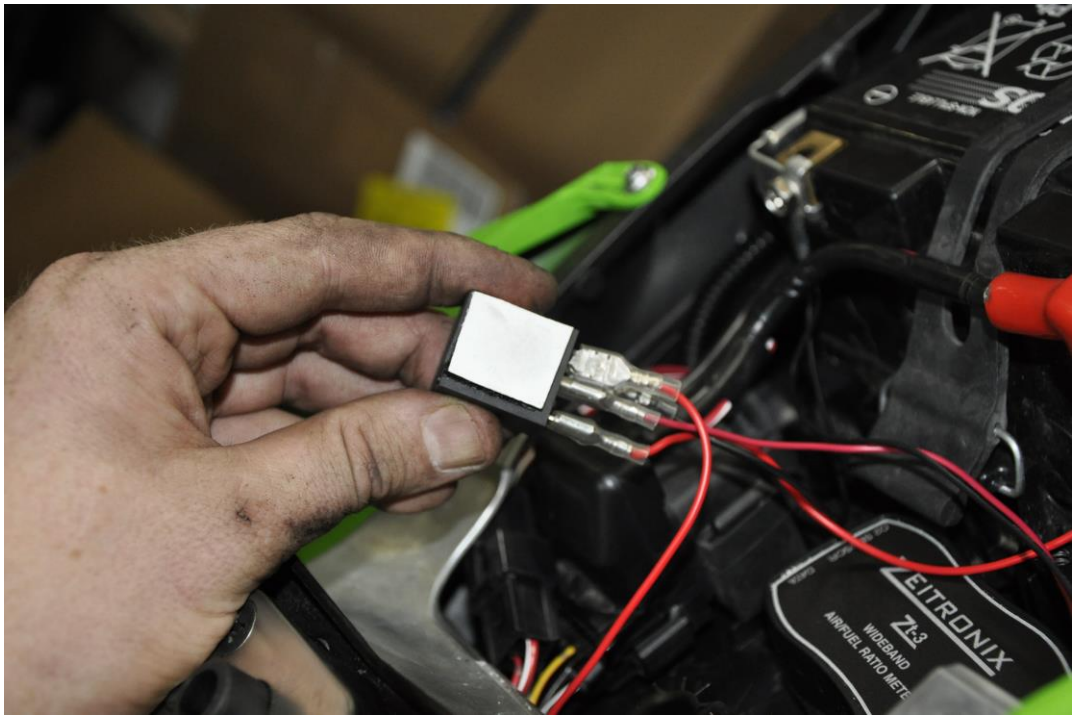
20) Install push connector and cover on red wire from ZT-3 power harness



21) Push connector onto pin 87 of 12v relay
22) Remove –ve battery terminal and, put 6mm bolt from battery terminal through eye connector from black wires.
23) Reinstall –ve battery terminal
24) Remove +ve battery terminal and put 6mm bolt from battery terminal through eye connector from red wire
25) Reinstall +ve battery terminal.
26) Plug in ZT-3 power supply harness to ZT-3
27) **Before powering on the bike, Check all of your wiring.**
28) Turn on the key to the bike and the relay should click indicating the relay has engaged then the Orange LED on the ZT-3 should begin flashing.

7) Mount ZT-3 and Relay

Use the supplied double sided Velcro tape to mount both the relay and the ZT-3 to the bike.



8) Final Installation

Reassemble any components you may have taken off your bike during the install.

Warranty

Woolich Racing Warranty obligations are limited to the terms set forth below.

Woolich Racing warrants this product against defects in material and workmanship for the period of one (1) year. The warranty period begins with the date of original retail purchase.

This limited warranty is made only to the original end user purchaser ("you") of the product and does not extend to any subsequent purchasers or owners of the product. The "original end user" is the first user to put the product into service in any fashion. It is your responsibility to establish the warranty period by verifying the original purchase date.

If you discover a defect, Woolich Racing will, at its option, repair or replace this product with a new or reconditioned product at no charge to you, provided you return it during the warranty period, with transportation charges prepaid, to Woolich Racing. Please attach your name, address, telephone number, and a copy of the receipt from Paypal as proof of date of original purchase, as well as a detailed description of the problem for which service is requested. You are responsible for packing the product to be returned. If the repairs are covered by the Limited Warranty and if the product was properly shipped to Woolich Racing, Woolich Racing will pay the return shipping charges. This warranty applies only to Woolich Racing products. This warranty does not cover damaged resulting from accident, misuse, abuse, or neglect and/or damage during any type of transportation resulting from improper packaging; damage to any product which has been altered in any fashion, including damage resulting from causes other than product defects, including and not by way of limitation, lack of technical skill, competence, or experience of the user, and/or failure to use the product in accordance with the instructions provided in the User's Manual or Installation Manual; and service performance by an unauthorized person or entity. Any implied warranties including fitness for use and merchantability are limited to the period of the expressed warranty set forth above. The remedies provided under this warranty are exclusive and in lieu of all others.

Disclaimer

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